

FILE 'HOME' ENTERED AT 10:20:13 ON 23 SEP 2003

=> e medline, embase, biosis

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The EXPAND command is used to look at the index in a file
which has an index. This file does not have an index.

=> file medline, embase, biosis

COST IN U.S. DOLLARS	ENTRY	SINCE FILE	TOTAL
	SESSION		
FULL ESTIMATED COST	0.63	0.63	0.63

FILE 'MEDLINE' ENTERED AT 10:22:05 ON 23 SEP 2003

FILE 'EMBASE' ENTERED AT 10:22:05 ON 23 SEP 2003
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FILE 'BIOSIS' ENTERED AT 10:22:05 ON 23 SEP 2003
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=> s insulin and b-chain

L1 3113 INSULIN AND B-CHAIN

=> s l1 and (fusion or chimera?)

L2 82 L1 AND (FUSION OR CHIMER?)

=> duplicate remove l2

DUPLICATE PREFERENCE IS 'MEDLINE, EMBASE, BIOSIS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L2

L3 38 DUPLICATE REMOVE L2 (44 DUPLICATES REMOVED)

=> d l-38

L3 ANSWER 1 OF 38 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS
INC. on STN

AN 2003:194190 BIOSIS

DN PREV200300194190

TI C peptide for improved preparation of insulin and
insulin analogs.

AU Habermann, Paul (1); Ertl, Johann; Meiwes, Johannes; Seipke, Gerhard

CS (1) Eppstein, Germany Germany

ASSIGNEE: Aventis Pharma Deutschland GmbH, Germany

PI US 6534288 March 18, 2003

SO Official Gazette of the United States Patent and Trademark Office Patents,

(Mar. 18 2003) Vol. 1268, No. 3, pp. No Pagination.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133.

DT Patent

LA English

L3 ANSWER 2 OF 38 MEDLINE on STN DUPLICATE 1

AN 2003053397 MEDLINE

DN 22450628 PubMed ID: 12446709

TI Behavior in the eukaryotic secretory pathway of insulin
-containing fusion proteins and single-chain insulins bearing
various B-chain mutations.

AU Zhang Bao-yan; Liu Ming; Arvan Peter

CS Department of Developmental and Molecular Biology, Albert Einstein College
of Medicine, Bronx, New York 10461, USA.

NC DK48280 (NIDDK)

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2003 Feb 7) 278 (6) 3687-93.
Journal code: 2985121R. ISSN: 0021-9258.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200303

ED Entered STN: 20030204

Last Updated on STN: 20030322

Entered Medline: 20030321

L3 ANSWER 3 OF 38 MEDLINE on STN DUPLICATE 2

AN 2003258409 MEDLINE

DN 22668782 PubMed ID: 12630913

TI Construction, expression and characterization of a chimaeric
mammalian-plant aspartic proteinase.

AU Payie Kenneth G; Tanaka Takuji; Gal Susannah; Yada Rickey Y

CS Department of Food Science, University of Guelph, ON N1G 2W1, Canada.

SO BIOCHEMICAL JOURNAL, (2003 Jun 15) 372 (Pt 3) 671-8.

Journal code: 2984726R. ISSN: 0264-6021.

CY England: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200307

ED Entered STN: 20030605

Last Updated on STN: 20030724

Entered Medline: 20030723

L3 ANSWER 4 OF 38 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 2003331772 EMBASE
TI Prevention of autoimmune diabetes by DNA vaccination.
AU Prud'homme G.J.
CS G.J. Prud'homme, Dept. of Lab. Med. and Pathobiology, St. Michael's Hospital, 30 Bond Street, Toronto, Ont. M5B1W8, Canada.
prudhomme@smh.toronto.on.ca
SO Expert Review of Vaccines, (2003) 2/4 (533-540).
Refs: 75
ISSN: 1476-0584 CODEN: ERVXAX
CY United Kingdom
DT Journal; General Review
FS 003 Endocrinology
026 Immunology, Serology and Transplantation
037 Drug Literature Index
LA English
SL English

L3 ANSWER 5 OF 38 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN
AN 2002:166585 BIOSIS
DN PREV200200166585
TI Method for the preparation of insulin by cleavage of a fusion protein and fusion proteins containing insulin A and B chains.
AU Hadfield, Christopher (1); Meacock, Peter A.; Krishnaswamy, Patnam R.; Shashi, Kaithamana; Raina, Krishna K.; Ramadoss, Candadai S.
CS (1) Leicester UK
ASSIGNEE: Vital Mallya Scientific Research Foundation, India; the University of Leicester, UK
PI US 6337194 January 08, 2002
SO Official Gazette of the United States Patent and Trademark Office Patents, (Jan. 8, 2002) Vol. 1254, No. 2, pp. No Pagination.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133.
DT Patent
LA English

L3 ANSWER 6 OF 38 MEDLINE on STN DUPLICATE 3
AN 2002430140 MEDLINE
DN 22174322 PubMed ID: 12186542
TI The different energetic state of the intra A-chain/domain disulfide of insulin and insulin-like growth factor 1 is mainly

controlled by their B-chain/domain.
AU Guo Zhan-Yun; Shen Lu; Feng You-Min
CS State Key Laboratory of Molecular Biology, Shanghai Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, 320 Yue-Yang Road, Shanghai 200031, China.
SO BIOCHEMISTRY, (2002 Aug 27) 41 (34) 10585-92.
Journal code: 0370623. ISSN: 0006-2960.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200209
ED Entered STN: 20020821
Last Updated on STN: 20020919
Entered Medline: 20020918

L3 ANSWER 7 OF 38 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 2002147299 EMBASE
TI Analysis of structure and function relationships of an autoantigenic peptide of insulin bound to H-2K(d) that stimulates CD8 T cells in insulin-dependent diabetes mellitus.
AU Wong F.S.; Moustakas A.K.; Wen L.; Papadopoulos G.K.; Janeway Jr. C.A.
CS F.S. Wong, Department of Pathology, School of Medical Sciences, University of Bristol, Bristol BS8 1TD, United Kingdom. Susan.Wong@bristol.ac.uk
SO Proceedings of the National Academy of Sciences of the United States of America, (16 Apr 2002) 99/8 (5551-5556).
Refs: 48
ISSN: 0027-8424 CODEN: PNASA6
CY United States
DT Journal; Conference Article
FS 003 Endocrinology
026 Immunology, Serology and Transplantation
029 Clinical Biochemistry
LA English
SL English

L3 ANSWER 8 OF 38 MEDLINE on STN DUPLICATE 4
AN 2002231870 MEDLINE
DN 21966282 PubMed ID: 11971030
TI Gene transfer of Ig-fusion proteins into B cells prevents and treats autoimmune diseases.
AU Melo Marco E F; Qian Jiahua; El-Amine Moustapha; Agarwal Rajeev K;

- Soukhareva Nadejda; Kang Yubin; Scott David W
 CS Holland Laboratory, Department of Immunology, American Red Cross,
 Rockville, MD 20855, USA.
 NC DK61327 (NIDDK)
 K08 AI01509 (NIAID)
 R01 AI35622 (NIAID)
 SO JOURNAL OF IMMUNOLOGY, (2002 May 1) 168 (9) 4788-95.
 Journal code: 2985117R. ISSN: 0022-1767.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Abridged Index Medicus Journals; Priority Journals
 EM 200205
 ED Entered STN: 20020424
 Last Updated on STN: 20020518
 Entered Medline: 20020517
- L3 ANSWER 9 OF 38 MEDLINE on STN
 AN 2002104616 MEDLINE
 DN 21673343 PubMed ID: 11814349
 TI The different folding behavior of insulin and insulin
 -like growth factor 1 is mainly controlled by their B-
 chain/domain.
 AU Guo Zhan-Yun; Shen Lu; Feng You-Min
 CS State Key Laboratory of Molecular Biology, Institute of Biochemistry and
 Cell Biology, Shanghai Institutes for Biological Sciences, Chinese Academy
 of Sciences, 320 Yue-Yang Road, Shanghai 200031, China.
 SO BIOCHEMISTRY, (2002 Feb 5) 41 (5) 1556-67.
 Journal code: 0370623. ISSN: 0006-2960.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200202
 ED Entered STN: 20020212
 Last Updated on STN: 20020220
 Entered Medline: 20020219
- L3 ANSWER 10 OF 38 MEDLINE on STN
 AN 2002335483 MEDLINE
 DN 22043275 PubMed ID: 12047753
 TI Genetic fusion of human insulin B-
 chain to the B-subunit of cholera toxin enhances in vitro antigen
 presentation and induction of bystander suppression in vivo.
 AU Sadeghi Hamid; Bregenholt Soren; Wegmann Dale; Petersen Jacob S; Holmgren
- Jan; Lebens Michael
 CS Department of Medical Microbiology and Immunology, University of Goteborg,
 Goteborg, Sweden.
 SO IMMUNOLOGY, (2002 Jun) 106 (2) 237-45.
 Journal code: 0374672. ISSN: 0019-2805.
 CY England; United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200207
 ED Entered STN: 20020625
 Last Updated on STN: 20020716
 Entered Medline: 20020715
- L3 ANSWER 11 OF 38 MEDLINE on STN
 AN 2002647934 MEDLINE
 DN 22295065 PubMed ID: 12406671
 TI Recombinant human insulin IX. Investigation of factors,
 influencing the folding of fusion protein-S-sulfonates,
 biotechnological precursors of human insulin.
 AU Tikhonov Roman V; Pechenov Sergey E; Belacheu Irina A; Yakimov Sergey A;
 Klyushnichenko Vadim E; Tunes Heloisa; Thiemann Josef E; Vilela Luciano;
 Wulfson Andrey N
 CS M.M Shemyakin and Yu.A. Ovchinnikov Institute of Bioorganic Chemistry,
 Russian Academy of Sciences, Miklukho-Maklaya Street 16/10, GSP, V-437,
 117997, Moscow, Russia.
 SO PROTEIN EXPRESSION AND PURIFICATION, (2002 Nov) 26 (2) 187-93.
 Journal code: 9101496. ISSN: 1046-5928.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200305
 ED Entered STN: 20021031
 Last Updated on STN: 20030509
 Entered Medline: 20030508
- L3 ANSWER 12 OF 38 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS
 INC. on STN
 AN 2001:258570 BIOSIS
 DN PREV200100258570
 TI Qa1b-restricted T cells can be positively selected on either hematopoietic
 or stromal thymic cells.
 AU Sullivan, Barbara Anne (1); Ignatowicz, Leszek; Jensen, Peter E. (1)
 CS (1) Emory University, 1639 Pierce Drive, Atlanta, GA, 30322 USA

SO FASEB Journal, (March 8, 2001) Vol. 15, No. 5, pp. A1230. print.
 Meeting Info.: Annual Meeting of the Federation of American Societies for
 Experimental Biology on Experimental Biology 2001 Orlando, Florida, USA
 March 31-April 04, 2001
 ISSN: 0892-6638.

DT Conference
 LA English
 SL English

L3 ANSWER 13 OF 38 MEDLINE on STN
 AN 2001357879 MEDLINE
 DN 21311920 PubMed ID: 11418698
 TI Plasmid DNAs encoding insulin and glutamic acid decarboxylase 65
 have distinct effects on the progression of autoimmune diabetes in
 nonobese diabetic mice.
 AU Weaver D J Jr; Liu B; Tisch R
 CS Department of Microbiology and Immunology, School of Medicine, University
 of North Carolina, Chapel Hill, NC 27599, USA.
 NC 5-T32-AI07273 (NIAID)
 SPO1 AI41580 (NIAID)
 SR01 DK52365 (NIDDK)

SO JOURNAL OF IMMUNOLOGY, (2001 Jul 1) 167 (1) 586-92.
 Journal code: 2985117R. ISSN: 0022-1767.

CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Abridged Index Medicus Journals; Priority Journals
 EM 200109
 ED Entered STN: 20010924
 Last Updated on STN: 20010924
 Entered Medline: 20010920

L3 ANSWER 14 OF 38 MEDLINE on STN
 AN 2001012383 MEDLINE
 DN 20335834 PubMed ID: 10879487
 TI Use of *Bacillus brevis* for synthesis and secretion of Des-B30 single-chain
 human insulin precursor.
 AU Koh M; Hanagata H; Ebisu S; Morihara K; Takagi H
 CS Institute for Applied Life Science, University of East Asia, Graduate
 School, Shimonoseki-shi, Yamaguchi, Japan.
 SO BIOSCIENCE, BIOTECHNOLOGY, AND BIOCHEMISTRY, (2000 May) 64
 (5) 1079-81.
 Journal code: 9205717. ISSN: 0916-8451.

CY Japan
 DT Journal; Article; (JOURNAL ARTICLE)

LA English
 FS Priority Journals
 EM 200010
 ED Entered STN: 20010322
 Last Updated on STN: 20010322
 Entered Medline: 20001031

L3 ANSWER 15 OF 38 MEDLINE on STN DUPLICATE 7
 AN 2001128088 MEDLINE
 DN 21036119 PubMed ID: 11185562
 TI Properties of the nuclear proteasome activator PA28gamma (REGgamma).
 AU Wilk S; Chen W E; Magnusson R P
 CS Department of Pharmacology, Mount Sinai School of Medicine, New York, New
 York 10029, USA.
 NC NS 29936 (NINDS)
 SO ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, (2000 Nov 15) 383 (2)
 265-71.
 Journal code: 0372430. ISSN: 0003-9861.

CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200103
 ED Entered STN: 20010404
 Last Updated on STN: 20010404
 Entered Medline: 20010301

L3 ANSWER 16 OF 38 MEDLINE on STN DUPLICATE 8
 AN 1999121091 MEDLINE
 DN 99121091 PubMed ID: 9920899
 TI Metalloprotease-disintegrin MDC9: intracellular maturation and catalytic
 activity.
 AU Roghani M; Becherer J D; Moss M L; Atherton R E; Erdjument-Bromage H;
 Arribas J; Blackburn R K; Weskamp G; Tempst P; Blobel C P
 CS Cellular Biochemistry and Biophysics Program, Sloan-Kettering Institute,
 Memorial Sloan-Kettering Cancer Center, New York, New York 10021, USA.
 NC P30-CA-08748 (NCI)
 R55GM51988 (NIGMS)
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Feb 5) 274 (6) 3531-40.
 Journal code: 2985121R. ISSN: 0021-9258.

CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199902

ED Entered STN: 19990316
 Last Updated on STN: 20000303
 Entered Medline: 19990226

L3 ANSWER 17 OF 38 MEDLINE on STN DUPLICATE 9
 AN 1999456802 MEDLINE
 DN 99456802 PubMed ID: 10525662
 TI Inhibition of insulin-specific autoreactive T-cells by
 sulphatide which is variably expressed in beta cells.
 AU Buschard K; Schloot N C; Kaas A; Bock T; Horn T; Fredman P; Roep B O
 CS Bartholin Institutet, Kommunehospitalet, Copenhagen, Denmark.
 SO DIABETOLOGIA, (1999 Oct) 42 (10) 1212-8.
 Journal code: 0006777. ISSN: 0012-186X.
 CY GERMANY: Germany, Federal Republic of
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199912
 ED Entered STN: 20000113
 Last Updated on STN: 20000113
 Entered Medline: 19991201

L3 ANSWER 18 OF 38 MEDLINE on STN
 AN 2000015821 MEDLINE
 DN 20015821 PubMed ID: 10549628
 TI Autoreactive CD4+ T cells protect from autoimmune diabetes via bystander
 suppression using the IL-4/Stat6 pathway.
 AU Homann D; Holz A; Bot A; Coon B; Wolfe T; Petersen J; Dyrberg T P; Grusby
 M J; von Herrath M G
 CS Department of Neuropharmacology, The Scripps Research Institute, La Jolla,
 California 92037, USA.
 NC AI40171 (NIAID)
 AI44451 (NIAID)
 DK51091 (NIDDK)
 SO IMMUNITY, (1999 Oct) 11 (4) 463-72.
 Journal code: 9432918. ISSN: 1074-7613.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199911
 ED Entered STN: 20000111
 Last Updated on STN: 20000111
 Entered Medline: 19991123

L3 ANSWER 19 OF 38 MEDLINE on STN DUPLICATE 10
 AN 1999155795 MEDLINE
 DN 99155795 PubMed ID: 10036770
 TI Temperature-induced production of recombinant human insulin in
 high-cell density cultures of recombinant Escherichia coli.
 AU Schmidt M; Babu K R; Khanna N; Marten S; Rinas U
 CS GBF National Research Center for Biotechnology, Biochemical Engineering
 Division, Braunschweig, Germany.
 SO JOURNAL OF BIOTECHNOLOGY, (1999 Feb 5) 68 (1) 71-83.
 Journal code: 8411927. ISSN: 0168-1656.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199904
 ED Entered STN: 19990420
 Last Updated on STN: 19990420
 Entered Medline: 19990405

L3 ANSWER 20 OF 38 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS
 INC. on STN
 AN 1999:398010 BIOSIS
 DN PREV199900398010
 TI The fusion protein CTB-insulin B-
 chain efficiency on non-obese diabetic mice.
 AU Sadeghi, H. (1); Lebens, M. (1); Czerkinsly, C. (1); Holmgren, J. (1)
 CS (1) Department of Medical Microbiology and Immunology, University of
 Goteborg, Goteborg Sweden
 SO Immunology Letters, (June 15, 1999) Vol. 69, No. 1, pp. 61.
 Meeting Info.: 10th International Congress of Mucosal Immunology Amsterdam,
 Netherlands June 27-July 1, 1999
 ISSN: 0165-2478.
 DT Conference
 LA English

L3 ANSWER 21 OF 38 MEDLINE on STN DUPLICATE 11
 AN 1998198409 MEDLINE
 DN 98198409 PubMed ID: 9531511
 TI Insulin targeting to the regulated secretory pathway after
 fusion with green fluorescent protein and firefly luciferase.
 AU Pouli A E; Kennedy H J; Schofield J G; Rutter G A
 CS Department of Biochemistry, School of Medical Sciences, University Walk,
 University of Bristol, Bristol BS8 1TD, U.K.
 SO BIOCHEMICAL JOURNAL, (1998 Apr 15) 331 (Pt 2) 669-75.
 Journal code: 2984726R. ISSN: 0264-6021.

CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Priority Journals

EM 199807

ED Entered STN: 19980716

Last Updated on STN: 19980716

Entered Medline: 19980706

L3 ANSWER 22 OF 38 MEDLINE on STN DUPLICATE 12

AN 1999006992 MEDLINE

DN 99006992 PubMed ID: 9792506

TI Utilization of antipeptide antibodies as affinity ligands in
immunoaffinity purification.

AU Katoh S; Terashima M; Shiomi N

CS Department of Chemical Science and Engineering, Kobe University, Nada
Rokkodai, Japan.

SO JOURNAL OF CHROMATOGRAPHY. B, BIOMEDICAL SCIENCES AND
APPLICATIONS, (1998

Sep 11) 715 (1) 147-52.

Journal code: 9714109. ISSN: 1387-2273.

CY Netherlands

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199812

ED Entered STN: 19990115

Last Updated on STN: 19990115

Entered Medline: 19981218

L3 ANSWER 23 OF 38 MEDLINE on STN DUPLICATE 13

AN 96074784 MEDLINE

DN 96074784 PubMed ID: 7473750

TI Identification of the receptor-recognition surface of bombyxin-II, an
insulin-like peptide of the silkworm Bombyx mori: critical
importance of the B-chain central part.

AU Nagata K; Hatanaka H; Kohda D; Kataoka H; Nagasawa H; Isogai A; Ishizaki
H; Suzuki A; Inagaki F

CS Department of Molecular Physiology, Tokyo Metropolitan Institute of
Medical Science, Japan.

SO JOURNAL OF MOLECULAR BIOLOGY, (1995 Nov 10) 253 (5) 759-70.

Journal code: 2985088R. ISSN: 0022-2836.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199512

ED Entered STN: 19960124

Last Updated on STN: 19960124

Entered Medline: 19951226

L3 ANSWER 24 OF 38 MEDLINE on STN

AN 96074783 MEDLINE

DN 96074783 PubMed ID: 7473749

TI Three-dimensional solution structure of bombyxin-II an insulin
-like peptide of the silkworm Bombyx mori: structural comparison with
insulin and relaxin.

AU Nagata K; Hatanaka H; Kohda D; Kataoka H; Nagasawa H; Isogai A; Ishizaki
H; Suzuki A; Inagaki F

CS Department of Molecular Physiology, Tokyo Metropolitan Institute of
Medical Science, Japan.

SO JOURNAL OF MOLECULAR BIOLOGY, (1995 Nov 10) 253 (5) 749-58.

Journal code: 2985088R. ISSN: 0022-2836.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199512

ED Entered STN: 19960124

Last Updated on STN: 19960124

Entered Medline: 19951226

L3 ANSWER 25 OF 38 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL
RIGHTS RESERVED.

on STN

DUPLICATE 14

AN 94094938 EMBASE

DN 1994094938

TI Design and cloning of the gene for a novel insulin analogue,
(B30- homoserine) human insulin.

AU Nam D.H.; Jeong Heon Ko; Seung Yup Lee

CS College of Pharmacy, Yeung-nam University, Kyongsan 712-749, Korea,
Republic of

SO Archives of Pharmacal Research, (1993) 16/4 (271-275).

ISSN: 0253-6269 CODEN: APHRDQ

CY Korea, Republic of

DT Journal; Article

FS 004 Microbiology

029 Clinical Biochemistry

037 Drug Literature Index

LA English

SL English

- L3 ANSWER 26 OF 38 MEDLINE on STN DUPLICATE 15
AN 92265751 MEDLINE
DN 92265751 PubMed ID: 1586668
TI Induction of Ca²⁺ transport in liposomes by insulin.
AU Brimble K S; Ananthanarayanan V S
CS Department of Biochemistry, McMaster University, Hamilton, Ontario, Canada.
SO BIOCHIMICA ET BIOPHYSICA ACTA, (1992 Apr 13) 1105 (2) 319-27.
Journal code: 0217513. ISSN: 0006-3002.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199206
ED Entered STN: 19920710
Last Updated on STN: 19970203
Entered Medline: 19920625
- L3 ANSWER 27 OF 38 MEDLINE on STN DUPLICATE 16
AN 90370040 MEDLINE
DN 90370040 PubMed ID: 1697643
TI Characterization of agretopes and epitopes involved in the presentation of beef insulin to T cells.
AU Fotedar A; Smart W; Boyer M; Dillon T; Fraga E; Lauzon J; Shevach E M; Singh B
CS Department of Immunology, University of Alberta, Edmonton, Canada.
SO MOLECULAR IMMUNOLOGY, (1990 Jul) 27 (7) 603-11.
Journal code: 7905289. ISSN: 0161-5890.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199010
ED Entered STN: 19901109
Last Updated on STN: 19960129
Entered Medline: 19901011
- L3 ANSWER 28 OF 38 MEDLINE on STN DUPLICATE 17
AN 86313658 MEDLINE
DN 86313658 PubMed ID: 3529091
TI Secretion and processing of insulin precursors in yeast.
AU Thim L; Hansen M T; Norris K; Hoegh I; Boel E; Forstrom J; Ammerer G; Füll N P

- SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, (1986 Sep) 83 (18) 6766-70.
Journal code: 7505876. ISSN: 0027-8424.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198610
ED Entered STN: 19900321
Last Updated on STN: 19900321
Entered Medline: 19861022
- L3 ANSWER 29 OF 38 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 87048507 EMBASE
DN 1987048507
TI The NH2 terminus of preproinsulin directs the translocation and glycosylation of a bacterial cytoplasmic - protein by mammalian microsomal membranes.
AU Eskridge E.M.; Shields D.
CS Department of Anatomy, Albert Einstein College of Medicine, Bronx, NY 10461, United States
SO Journal of Cell Biology, (1986) 103/6 I (2263-2272).
CODEN: JCLBA3
CY United States
DT Journal
FS 004 Microbiology
029 Clinical Biochemistry
LA English
- L3 ANSWER 30 OF 38 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN
AN 87080422 EMBASE
DN 1987080422
TI A new expression vector for the production of fused proteins in Escherichia coli.
AU Flores N.; De Anda R.; Guereca L.; et al.
CS Departamento de Biología Molecular, Centro de Investigaciones sobre Ingeniería Genética y Biotecnología, UNAM, Apdo. Postal 70479, Cuernavaca, Mexico 04510 D.F., Mexico
SO Applied Microbiology and Biotechnology, (1986) 25/3 (267-271).
CODEN: AMBIDG

CY Germany
DT Journal
FS 004 Microbiology
LA English

L3 ANSWER 31 OF 38 MEDLINE on STN DUPLICATE 18

AN 85028435 MEDLINE
DN 85028435 PubMed ID: 6092227

TI A quantitative beta-galactosidase alpha-complementation assay for fusion proteins containing human insulin B-chain peptides.

AU Miller F D; Hershenberger C L
SO GENE, (1984 Jul-Aug) 29 (1-2) 247-50.
Journal code: 7706761. ISSN: 0378-1119.

CY Netherlands

DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Priority Journals
EM 198412

ED Entered STN: 19900320

Last Updated on STN: 19900320

Entered Medline: 19841213

L3 ANSWER 32 OF 38 MEDLINE on STN DUPLICATE 19

AN 83213289 MEDLINE

DN 83213289 PubMed ID: 6304025

TI Expression of the human insulin gene and cDNA in a heterologous mammalian system.

AU Laub O; Rutter W J

NC AM 21344 (NIADDK)

GM 28520 (NIGMS)

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1983 May 25) 258 (10) 6043-50.
Journal code: 2985121R. ISSN: 0021-9258.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Priority Journals

EM 198307

ED Entered STN: 19900319

Last Updated on STN: 19970203

Entered Medline: 19830708

L3 ANSWER 33 OF 38 MEDLINE on STN DUPLICATE 20

AN 84062982 MEDLINE

DN 84062982 PubMed ID: 6196405

TI Fine specificity of cloned insulin-specific T cell hybridomas: evidence supporting a role for tertiary conformation.
AU Glimcher L H; Schroer J A; Chan C; Shevach E M
SO JOURNAL OF IMMUNOLOGY, (1983 Dec) 131 (6) 2868-74.
Journal code: 2985117R. ISSN: 0022-1767.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Abridged Index Medicus Journals; Priority Journals
EM 198401

ED Entered STN: 19900319

Last Updated on STN: 19900319

Entered Medline: 19840107

L3 ANSWER 34 OF 38 MEDLINE on STN DUPLICATE 21

AN 83257276 MEDLINE

DN 83257276 PubMed ID: 6307369

TI A possible involvement of virus-associated protease in the fusion of Sendai virus envelopes with human erythrocytes.

AU Israel S; Ginsberg D; Laster Y; Zakai N; Milner Y; Loyter A

SO BIOCHIMICA ET BIOPHYSICA ACTA, (1983 Jul 27) 732 (2) 337-46.
Journal code: 0217513. ISSN: 0006-3002.

CY Netherlands

DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Priority Journals

EM 198309

ED Entered STN: 19900319

Last Updated on STN: 19970203

Entered Medline: 19830909

L3 ANSWER 35 OF 38 MEDLINE on STN DUPLICATE 22

AN 82129135 MEDLINE

DN 82129135 PubMed ID: 7036343

TI Cytoplasmic inclusion bodies in Escherichia coli producing biosynthetic human insulin proteins.

AU Williams D C; Van Frank R M; Muth W L; Burnett J P

SO SCIENCE, (1982 Feb 5) 215 (4533) 687-9.

Journal code: 0404511. ISSN: 0036-8075.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Priority Journals

EM 198204

ED Entered STN: 19900317

Last Updated on STN: 19900317
Entered Medline: 19820420

L3 ANSWER 36 OF 38 MEDLINE on STN DUPLICATE 23
AN 82060254 MEDLINE
DN 82060254 PubMed ID: 7029534
TI Biosynthesis and periplasmic segregation of human proinsulin in
Escherichia coli.
AU Chan S J; Weiss J; Konrad M; White T; Bahl C; Yu S D; Marks D; Steiner D F
NC AM 13914 (NIADDK)
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE
UNITED STATES OF
AMERICA, (1981 Sep) 78 (9) 5401-5.
Journal code: 7505876. ISSN: 0027-8424.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198201
ED Entered STN: 19900316
Last Updated on STN: 19970203
Entered Medline: 19820128

L3 ANSWER 37 OF 38 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL
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on STN DUPLICATE 24

AN 80148449 EMBASE

DN 1980148449

TI Nature of T cell-macrophage interaction in helper cell induction in vitro.
III. Responsiveness of T cells differentiating in irradiation or
allophenic chimeras depends on the genotype of the host.

AU Erb P.; Vogt P.; Matsunaga T.; et al.

CS Inst. Microbiol., Univ. Basel, CH-4003 Basel, Switzerland

SO Journal of Immunology, (1980) 124/6 (2656-2664).

CODEN: JOIMA3

CY United States

DT Journal

FS 026 Immunology, Serology and Transplantation

022 Human Genetics

LA English

L3 ANSWER 38 OF 38 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL
RIGHTS RESERVED.

on STN

AN 78027563 EMBASE

DN 1978027563

TI [Functional morphology of the process of secretion in the B cells of the
Langerhans islets].

FUNKTIONELLE MORPHOLOGIE DES SEKRETIONSPROZESSES IN DEN B
ZELLEN DER

LANGERHANSschen INSELN.

AU Kern H.F.

CS Anat. Inst. I, Univ. Heidelberg, Germany

SO Verhandlungen der Anatomischen Gesellschaft, (1976) Vol.70(I)/- (19-38).

CODEN: VHAGAS

DT Journal

FS 001 Anatomy, Anthropology, Embryology and Histology

LA German

=> d 7, 8, 10, 17, 31 abs

L3 ANSWER 7 OF 38 EMBASE COPYRIGHT 2003 ELSEVIER INC. ALL
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on STN

AB The recognition of MHC-peptide complexes by T cells is governed by
structural considerations that are determined by the sequences of the
individual components and their interaction with each other. We have
studied the function of a highly diabetogenic CD8 T cell clone that is
specific for insulin B15-23:H-2K(d). We have then related this

to modeled MHC-peptide structures. The native peptide binds poorly to
H-2K(d), because of the small glycine residue at peptide position p9 that
is incapable of productive interactions with the hydrophobic residues of
pocket F. In addition, electrostatic repulsions between the peptide
glutamate residue at position 7 and I52D of the MHC molecule heavy chain
contribute to the poor binding. However, B chain

peptide 15-23 bound to K(d) shows excellent T cell stimulation and the
induction of CD8 cytotoxic T cells. Peptide substitution has also shown
that p6G is likely to be a T cell antigen receptor interaction site. Our
studies have shown that the predictions seen in the models correlate
closely with the observed effects in functional assays and provide insight
into how this peptide, which would not be predicted to stimulate these
cells on H-2K(d) binding studies alone, could activate such highly
pathogenic T cells.

L3 ANSWER 8 OF 38 MEDLINE on STN DUPLICATE 4

AB Based on the tolerogenic properties of IgG carriers and B cell Ag
presentation, we developed a retrovirally mediated gene expression
approach for treatment of autoimmune conditions. In this study, we show
that the IgG-Ag retroviral constructs, expressing myelin basic protein

(MBP) or glutamic acid decarboxylase in B cells, can be used for the treatment of murine models for multiple sclerosis and diabetes. Transduction of syngeneic B cells with MBP-IgG leads to the amelioration of ongoing experimental allergic encephalomyelitis induced by the transfer of primed cells from PLxSJL F(1) mice with ongoing disease and could be effective even after symptoms appeared. This effect is specific and does not involve bystander suppression because treatment with MBP-IgG does not affect disease induced after immunization with proteolipid protein immunodominant peptide plus MBP. Interestingly, if donor B cells are derived from gld mice (Fas ligand-negative), then tolerance is not induced with a model Ag although there was no evidence for Fas ligand-mediated deletion of target T cells. In spontaneous diabetes in nonobese diabetic mice, we were able to stop the ongoing autoimmune process by treatment at 7-10 wk with glutamic acid decarboxylase-IgG retrovirally transduced B cells, or attenuate it with B cells transduced with an insulin B chain (B9-23) epitope IgG fusion protein. Furthermore, IgG fusion protein gene therapy can also protect primed recipients from Ag-induced anaphylactic shock, and thus does not cause immune deviation. These results demonstrate proof of principle for future efforts to develop this approach in a clinical setting.

L3 ANSWER 10 OF 38 MEDLINE on STN DUPLICATE 5
 AB The pentameric B-subunit of cholera toxin (CTB) can be used as an efficient mucosal carrier of either immunogenic or tolerogenic T-cell epitopes. In this study a series of fusions was constructed between the genes encoding CTB and the B-chain of human insulin (InsB). The resulting fusion proteins were expressed in *Escherichia coli* and isolated as cytoplasmic inclusion bodies that were then dissolved and assembled in vitro. GM1 enzyme-linked immunosorbent assay (ELISA), sodium dodecyl sulphate-polyacrylamide gel electrophoresis (SDS-PAGE) and Western blot analyses showed that the protein construct in which InsB was fused to the C-terminus of a CTB monomer (CI) assembled into structures that both bound to the receptor GM1 ganglioside and reacted with monoclonal antibodies to CTB and insulin. Fusion of InsB to the N-terminus of CTB resulted in protein that could not assemble into pentameric CTB. In vitro assays showed that the CI fusion protein was 300-fold more potent than native insulin at inducing interleukin-2 (IL-2) production by an insulin-specific T-cell hybridoma. When administered orally, the CI fusion protein induced efficient immunological suppression of ovalbumin-specific T-cell responses in mice co-immunized parenterally with insulin and ovalbumin. These results demonstrate the stability, GM1 receptor-binding activity and antigenic authenticity of the CI fusion protein as well as its ability to elicit insulin-specific T-cell responses in vitro.

In addition, we demonstrate that the CI fusion protein induces efficient immunosuppression after oral administration, raising the possibility of using such constructs in the treatment of type-1 diabetes.

L3 ANSWER 17 OF 38 MEDLINE on STN DUPLICATE 9
 AB AIMS/HYPOTHESIS: Sulphatide and insulin are present in the secretory granules and at the surface of beta cells in islets of Langerhans. Insulin autoantibodies and T-cell reactivity against insulin exist during the development of Type I (insulin-dependent) diabetes during which active beta cells may be more vulnerable than passive. Our aims were to examine the presence of sulphatide in active and passive beta cells and to clarify whether sulphatide influences the direct autoimmunity against insulin. METHODS: We incubated rat islets in 2.8, 11.0 or 20.0 mmol/l glucose for 24 h and did an electron microscopic evaluation after labelling with a specific anti-sulphatide monoclonal antibody. The reactivity of an insulin-specific T-cell clone isolated from a patient with Type I diabetes, was examined using insulin or insulin B-chain (B11-27) peptide incubated together with sulphatide. RESULTS: We detected lower amounts of sulphatide per insulin secretory granule in active compared with passive beta cells ($p = 0.003$). The presence of sulphatide in vitro at doses of 43-8.3 micromol/l resulted in greatly reduced proliferation (median 3.4 % of control value, $p = 0.0004$) of the insulin-specific T-cell clone. No inhibition was found using the precursor of sulphatide, galactosylceramide, or GM1. Sulphatide did not reduce non-specific proliferation (induced by phorbol myristate acetate plus anti-CD3) or specific proliferation induced by insulin peptide. CONCLUSION/INTERPRETATION: These results imply that sulphatide possibly affect processing of the insulin molecule. Sulphatide which has been reported to interfere with phagosome-lysosome fusion, conceivably interacts with insulin. We hypothesize a (patho)physiological role of sulphatide, variably expressed in beta cells, by reducing the antigenicity of insulin. [Diabetologia (1999) 42: 1212-1218]

L3 ANSWER 31 OF 38 MEDLINE on STN DUPLICATE 18
 AB The alpha-complementation reaction was adapted as a quantitative assay for fusion proteins consisting of the B chain of human insulin fused to the C terminus of the truncated beta-galactosidase.

=> d 8

L3 ANSWER 8 OF 38 MEDLINE on STN DUPLICATE 4
 AN 2002231870 MEDLINE
 DN 21966282 PubMed ID: 11971030
 TI Gene transfer of Ig-fusion proteins into B cells prevents and
 treats autoimmune diseases.
 AU Melo Marco E F; Qian Jiahua; El-Amine Moustapha; Agarwal Rajeev K;
 Soukhareva Nadejda; Kang Yubin; Scott David W
 CS Holland Laboratory, Department of Immunology, American Red Cross,
 Rockville, MD 20855, USA.
 NC DK61327 (NIDDK)
 K08 AI01509 (NIAID)
 R01 AI35622 (NIAID)
 SO JOURNAL OF IMMUNOLOGY, (2002 May 1) 168 (9) 4788-95.
 Journal code: 2985117R. ISSN: 0022-1767.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Abridged Index Medicus Journals; Priority Journals
 EM 200205
 ED Entered STN: 20020424
 Last Updated on STN: 20020518
 Entered Medline: 20020517

=> d 31

L3 ANSWER 31 OF 38 MEDLINE on STN DUPLICATE 18
 AN 85028435 MEDLINE
 DN 85028435 PubMed ID: 6092227
 TI A quantitative beta-galactosidase alpha-complementation assay for
 fusion proteins containing human insulin B-
 chain peptides.
 AU Miller F D; Hershberger C L
 SO GENE, (1984 Jul-Aug) 29 (1-2) 247-50.
 Journal code: 7706761. ISSN: 0378-1119.
 CY Netherlands
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 198412
 ED Entered STN: 19900320
 Last Updated on STN: 19900320
 Entered Medline: 19841213